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CLAIMS

[Claim(s)]

[Claim 1]Viscosity slaked lime aqueous suspension of 0.1 to 30 % of the weight of solids concentration in which the specific surface area X made slaked lime particles of 5.0-20.0-m²/g suspended in a limit which does not exceed 150cP. A manufacturing method of an efficient acid gas processing agent which consists of aqueous suspension of slaked lime carrying out grinding treatment until the specific surface area Y of slaked lime particles after grinding treatment (m²/g) satisfies formula $Y \geq 0.0036X^2 + 0.689X + 7.2055$.

[Claim 2]Viscosity slaked lime aqueous suspension of 0.1 to 30 % of the weight of solids concentration in which the specific surface area X made slaked lime particles of 5.0-20.0-m²/g suspended in a limit which does not exceed 150cP. A manufacturing method of an efficient acid gas processing agent which consists of aqueous suspension of slaked lime carrying out grinding treatment until the specific surface area Y of slaked lime particles after grinding treatment (m²/g) satisfies formula $Y \geq 0.0004X^2 + 0.7936X + 9.7185$.

[Claim 3]A method according to claim 1 or 2 of adding a dispersing agent at 0.01 to 10.0% of the weight of a rate to the slaked lime whole quantity to slaked lime aqueous suspension.

[Claim 4]A manufacturing method of an efficient acid gas processing agent giving aqueous suspension of slaked lime manufactured by a method according to claim 1, 2, or 3 to cyclone processing, and controlling particle diameter of particles to 15 micrometers or less.

[Claim 5]An efficient acid gas processing agent which consists of aqueous suspension of slaked lime manufactured by a method according to claim 1, 2, 3, or 4.

[Claim 6]An acid gas disposal method injecting the efficient acid gas processing agent according to claim 5, and removing an acid gas ingredient to acid gas.

[Translation done.]